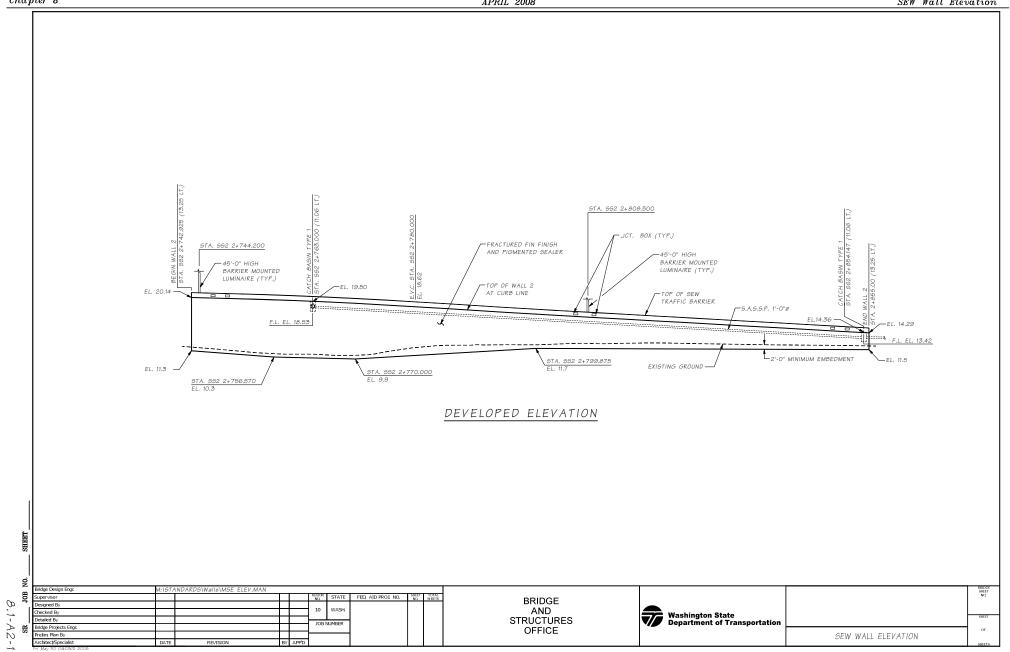
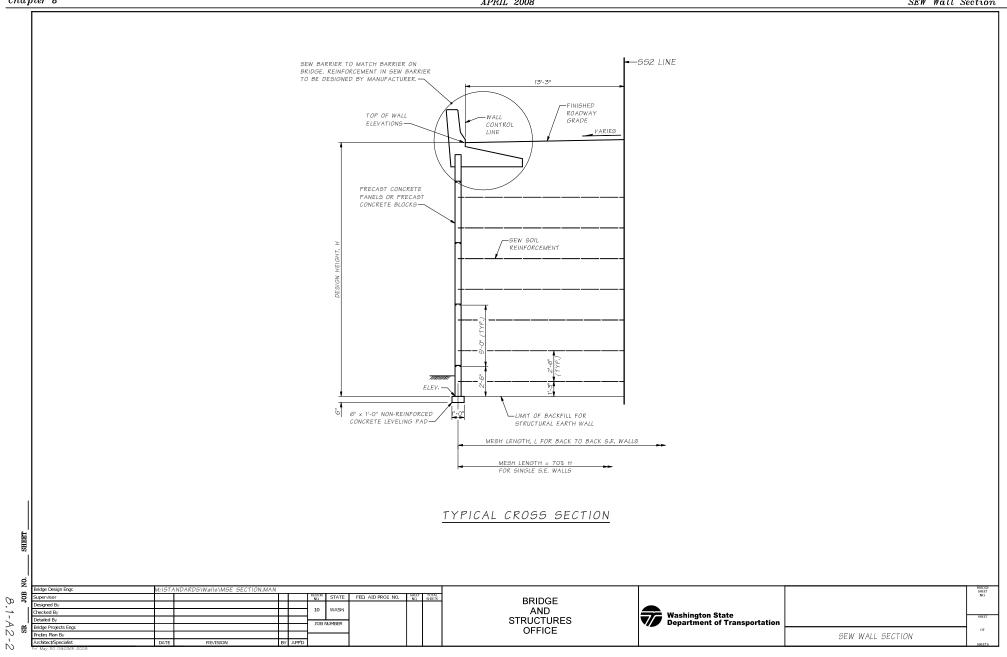
Chapter 8 APRIL 2008 SEW Wall Elevation



Chapter 8 APRIL 2008 SEW Wall Section



REFLECTED DEVELOPED ELEVATION

A.P. = ANGLE POINT

GENERAL NOTES

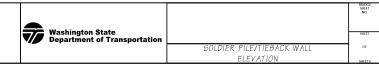
- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION-ENGLISH, DATED 2004, AND AMENDMENTS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES SIXTEENTH EDITION - 1996 AND INTERIMS. ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS FOR LOAD FACTOR DESIGN.
- 3. SOLDIER PILE SHAFTS WITH PERMANENT GROUND ANCHORS SHALL BE FILLED WITH CONCRETE CLASS 4000P BELOW THE TIMBER LAGGING. THE REMAINING PORTION OF THE SOLDIER PILE SHAFTS, INCLUDING THE FULL HEIGHT OF SOLDIER PILE SHAFTS WITHOUT PERMANENT GROUND ANCHORS, SHALL BE FILLED WITH CONTROLLED DENSITY FILL (CPF).
- 4. UNLESS OTHERWISE SHOWN IN THE PLANS, THE CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 11/2".
- 5. SOLDIER PILES, BARS AND PLATES FOR THE SOLDIER PILE ASSEMBLY STIFFENERS AND TIE PLATES SHALL CONFORM TO ASTM A36. THE 8"8 EXTRA STRONG PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A53 GR. B OR A501.
- ALL WELDING SHALL BE DONE TO MINIMIZE DISTORTION. THE WELDING SEQUENCES AND PROCEDURES TO BE USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WELDING.
- 7. ALL DIMENSIONS ARE HORIZONTAL AND VERTICAL UNLESS OTHERWISE SHOWN.
- 8. ALL DIMENSIONS SHOWN WITH DECIMALS ARE IN METERS AND ALL DIMENSIONS SHOWN WITHOUT DECIMALS ARE IN MILLIMETERS.

SOLDIER PILE/TIEBACK WALL

Chapter 8

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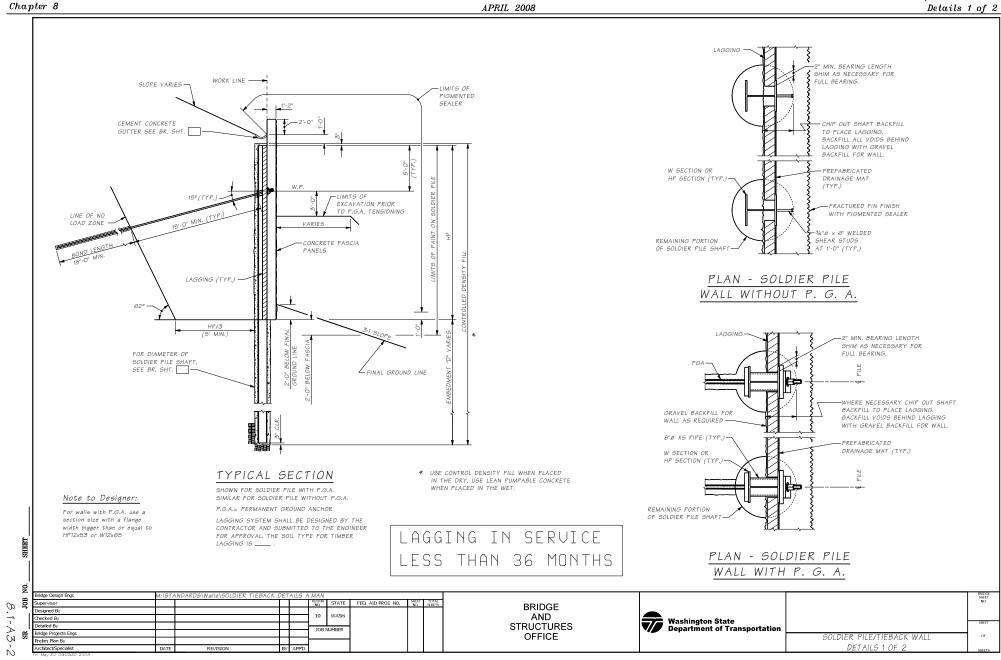
BRIDGE AND STRUCTURES OFFICE



Bridge Projects Engr

OF

SOLDIER PILE/TIEBACK WALL DETAILS 1 OF 2



AND

STRUCTURES

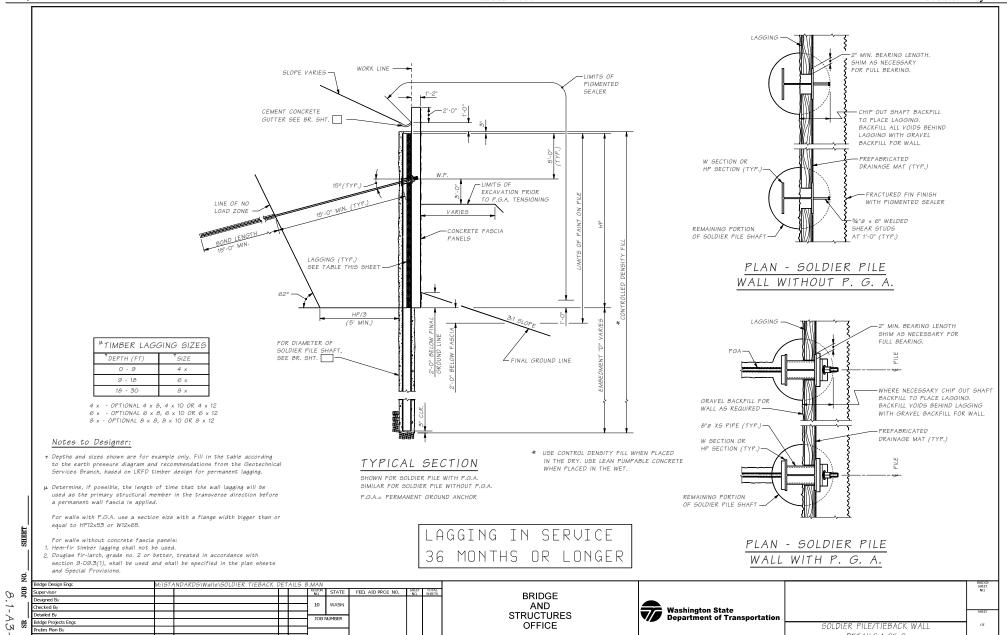
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Washington State Department of Transportation

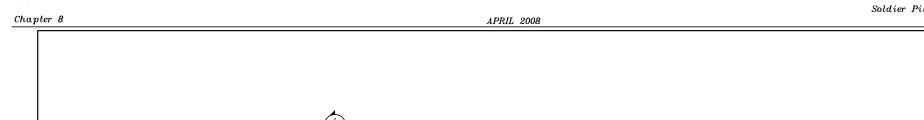
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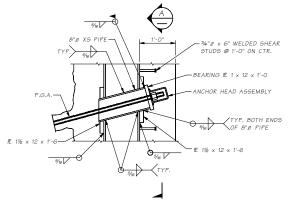
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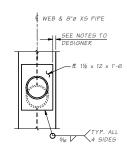


Soldier Pile/Tieback Wall Details 2 of 2





ELEVATION - SOLDIER PILE WITH P.G.A. THRU WEB





Notes to Designer:

- Plates must be checked for size and welds. Plates are used to replace flange steel removed for pipe installation.
- Weld must be checked along web to pipe and plate to flange: welds must be capable of tranferring PGA loads and flexural loads.

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	Architect/Specialist	DATE	REVISION	ΒY	APP'D						

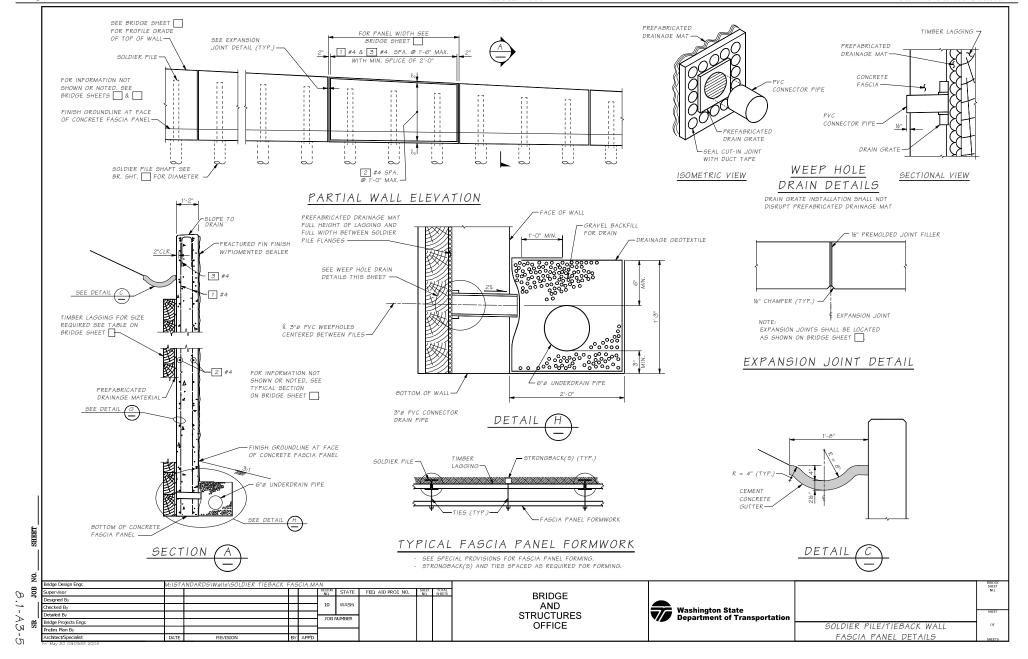
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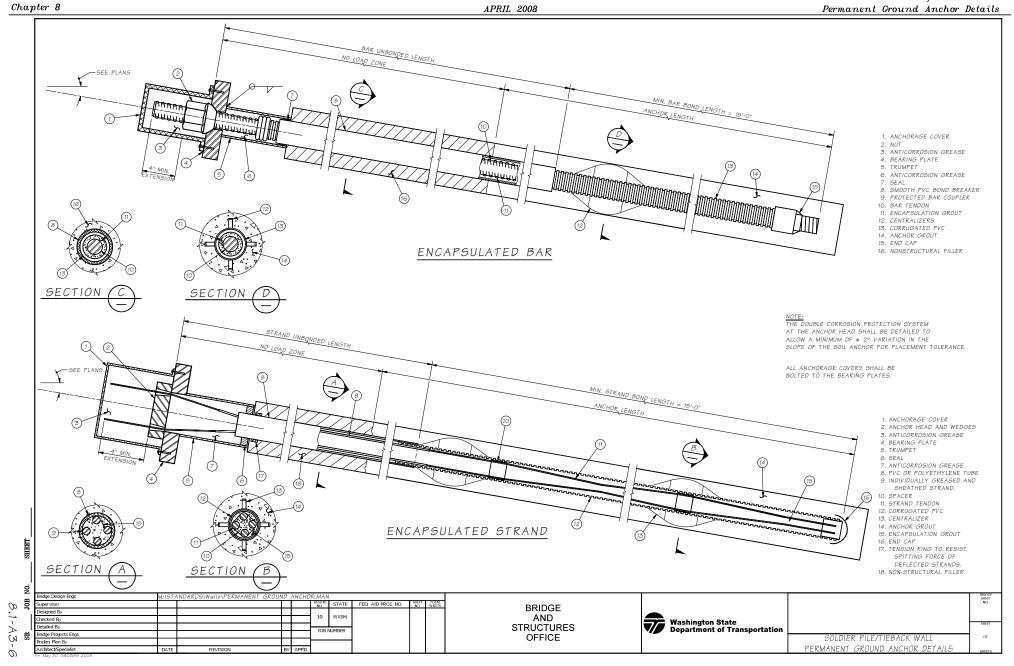
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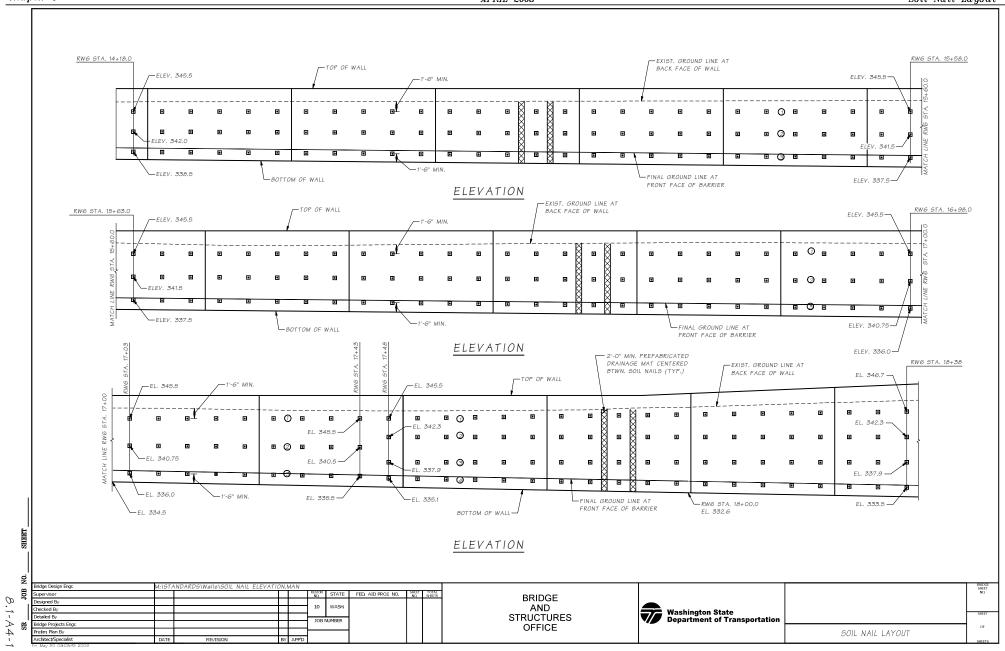
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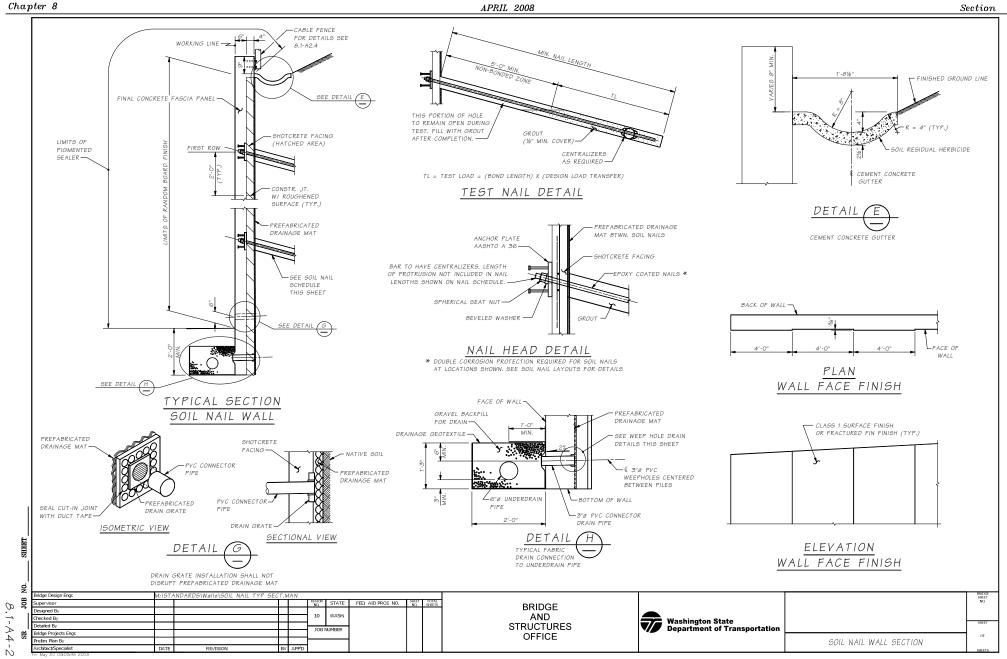




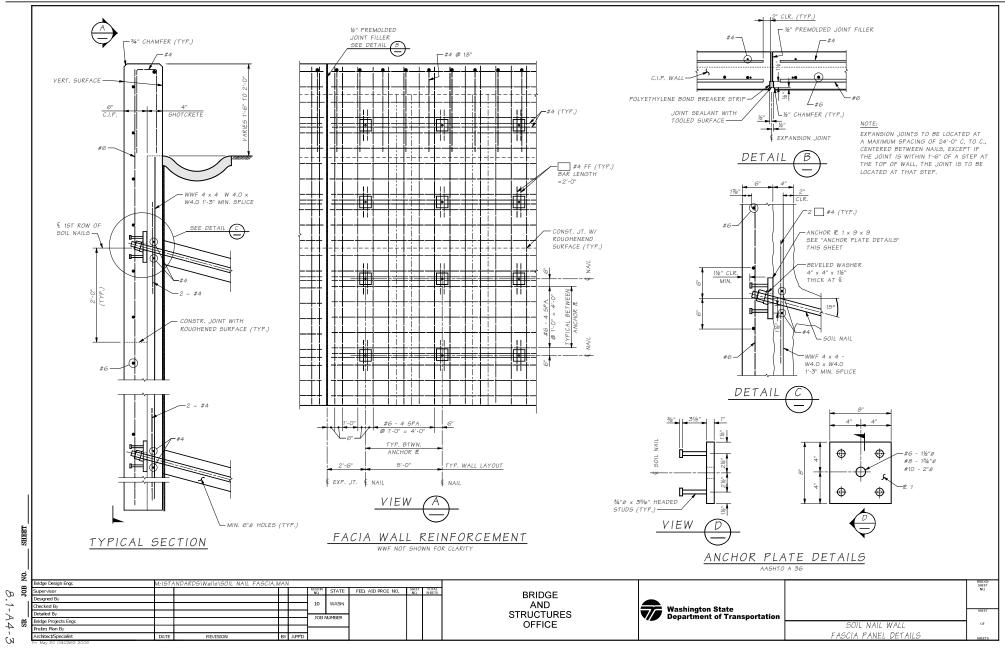
Chapter 8 APRIL 2008 Soil Nail Layout



APRIL 2008



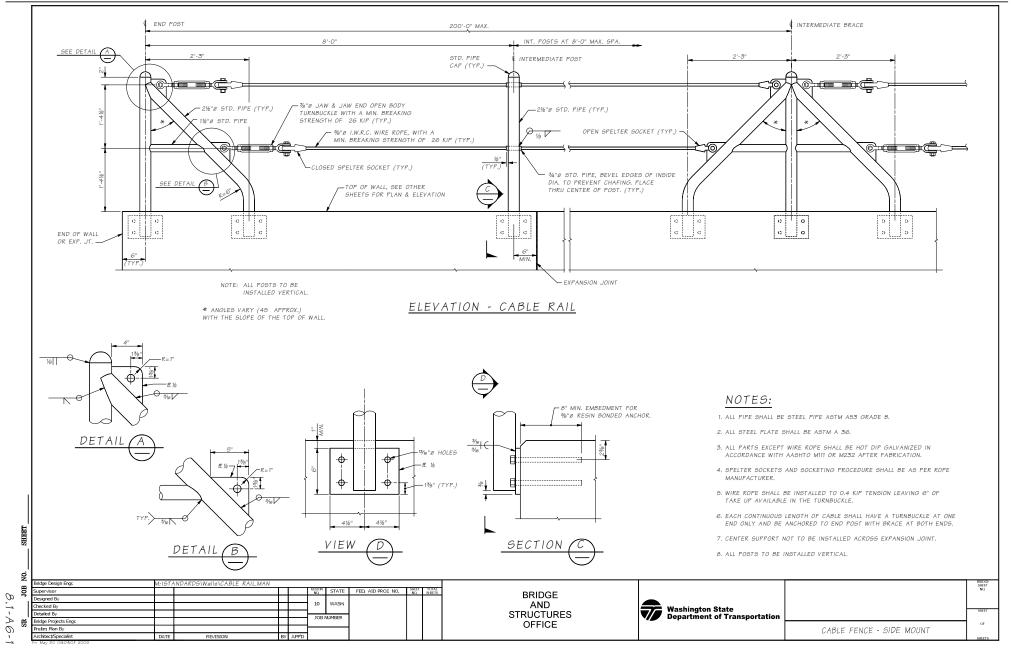
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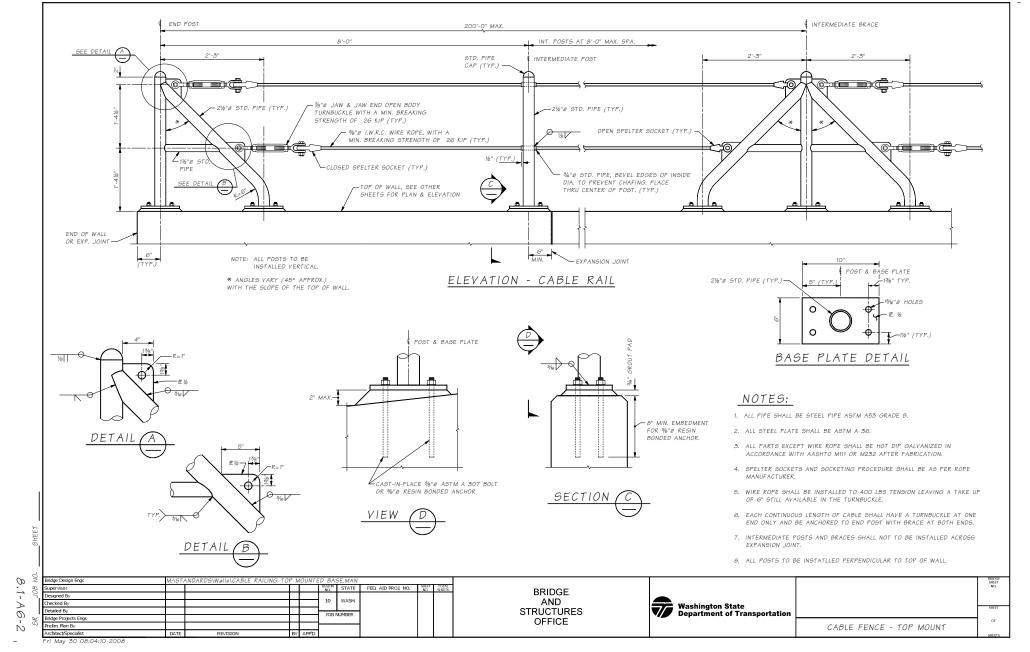
Appendix A BRIDGE DESIGN MANUAL Chapter 8 APRIL 2008 Noise Barrier on Bridge 1'-53/4" CURB LINE AT TOP OF RDWY.— FRACTURED FIN FINISH--FRACTURED FIN FINISH NOISE BARRIER WALL VERTICAL CONST. JOINT WITH ROUGHENED SURFACE TOP OF TRAFFIC BARRIER -BARRIER REINFORCEMENT, SEE TRAFFIC BARRIER SHEETS FOR DETAILS. TOP OF ROADWAY NOISE BARRIER WALL ON BRIDGE BRIDGE AND STRUCTURES OFFICE 8.1-A5-1 Washington State
Department of Transportation

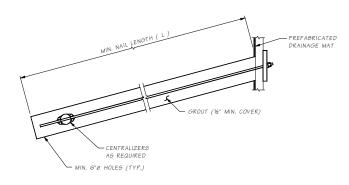
NOISE BARRIER ON BRIDGE

Chapter 8 APRIL 2008 Cable Fence









NAIL DETAIL SOLID BAR OPTION

	IAIL LENGTH (L)		PREFABRICATED DRAINAGE MAT
MIN. I			
		— GROUT (½" MIN. С	OVER)
	COUPLERS SPACED AT MINIMUM 9'-0"	(TYP.)	

<u>NAIL DETAIL</u> SELF-DRILLING HOLLOW BAR OPTION

	NAIL SCHEDULE								
	L	α	9	BAR #	DLT				
SOLID BARS									
SELF-DRILLING HOLLOW BARS									

NOTES:

- NAIL ELEVATIONS AT FACE OF SHOTCRETE FACING SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 2. THE SOIL NAILS SHALL BE BLACK STEEL REINFORING BARS. SELF-DRILLING HOLLOW BAR ANCHORS WITH A MINIMUM CAPACITY OF 45 KIPS MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

LEGEND

- L = MINIMUM NAIL LENGTH (FT.)
- α = NAIL DECLINATION (DEG.)
- S = HORIZONTAL SPACING OF NAILS
- BAR # = MIN. STEEL BAR SIZE
- DLT = DESIGN LOAD TRANSFER (K/FT.)

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